IN THE CLAIMS:

Please cancel claims 3-5, amend claims 1-2, and add new claims 6-9 as follows:

1. (Currently amended) A spectrophotometer having

a light source for emitting an optical beam,

a photodetector that changes in sensitivity with changes in applied voltage,

an analog-to-digital converter by which electrical signals from said photodetector are converted into digital signals,

a digital storage means for storage of said digital signals corresponding to the light of said beam, and

a ~~sensitivity~~ control means for controlling ~~the sensitivity of~~ a voltage applied to said photodetector ~~so that the signal values of said digital signals stay within a predetermined range~~,

wherein ~~the spectrophotometer is characterized in that~~ said ~~sensitivity~~ control means is further equipped with ~~a sensitivity correction data storage means by which sensitivity correction data for adjusting the sensitivity photodetector is stored for each wavelength,~~ an applied voltage storage means for previously storing said applied voltage corresponding to a wavelength thereof, said applied voltage being corrected so as to be in a proper range, wherein ~~and a sensitivity correction means for adjusting the sensitivity of said photodetector by applying the sensitivity correction data stored into said sensitivity correction data storage means~~

when measuring a sample, a voltage value corresponding to said wavelength to be measured is read out from said applied voltage storage means so as to apply a voltage having said voltage value to said photodetector.

2. (Currently amended) A spectrophotometer having

a light source for emitting an optical beam,

a beam splitting means by which the beam that has been emitted from said light source is

split into two beams,

a photodetector that changes in sensitivity with changes in applied voltage,

an analog-to-digital converter by which electrical signals from said photodetector are converted into digital signals, and

~~a digital storage means for storage of said digital signals corresponding to the light of said two beams,~~

~~a sensitivity control means for controlling the sensitivity of said photodetector so that the signal values of said digital signals stay within a predetermined range, and~~

~~a calculation means for calculating the ratio of the digital signals corresponding to the two beams stored into said digital storage means,~~

a control means for controlling said applied voltage to said photodetector and for calculating a ratio of the outputs of said photodetector corresponding to said two beams,

wherein ~~the spectrophotometer is characterized in that~~ said ~~sensitivity~~ control means is further equipped with ~~a sensitivity correction data storage means by which sensitivity correction data for adjusting the sensitivity of said photodetector is stored for each wavelength,~~ an applied voltage storage means for previously storing said applied voltage corresponding to a wavelength thereof, said applied voltage being corrected so as to be in a proper range,

wherein ~~and a sensitivity correction means for adjusting the sensitivity of said photodetector by applying the sensitivity correction data stored into said sensitivity correction data storage means~~ when measuring a sample, a voltage value corresponding to said wavelength to be measured is read out from said applied voltage storage means so as to apply a voltage having said voltage value to said photodetector.

6. (New) A spectrophotometer as set forth in claim 1, wherein when said voltage value is stored in said applied voltage storage means, said sample is measured with a wavelength movable velocity limited within a predetermined range.

7. (New) A spectrophotometer as set forth in claim 2, wherein when said voltage value is stored in said applied voltage storage means, said sample is measured with a wavelength movable velocity limited within a predetermined range.

8. (New) A spectrophotometer as set forth in claim 1, further comprising:

a display for displaying a state and result obtained by measuring the sample, and

when measuring the sample, if said voltage value is not stored in said applied voltage storage means, a warning message is displayed on said display.

9. (New) A spectrophotometer as set forth in claim 2, further comprising:

a display for displaying a state and result obtained by measuring the sample, and

when measuring the sample, if said voltage value is not stored in said applied voltage storage means, a warning message is displayed on said display.